

#### ABSTRACT

**[66]** The invention relates to sample support plates with hydrophilic anchors in a strongly hydrophobic environment for mass spectroscopic analysis of biosubstances with ionization by matrix-assisted laser desorption and ionization (MALDI), procedures for manufacturing these sample supports, and connected procedures for loading these sample supports with biomolecular samples. The invention provides areas with affinity adsorbents adjacent to the hydrophilic anchors for purifying biosubstances and, if wanted, for performing an affinity selection of biosubstances, whereby the finally prepared matrix sample crystals with the biosubstances for the MALDI analysis are well localized on the hydrophilic anchors.

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